

Advanced Acoustic Blankets for Improved Aircraft Interior Noise Reduction, Phase I

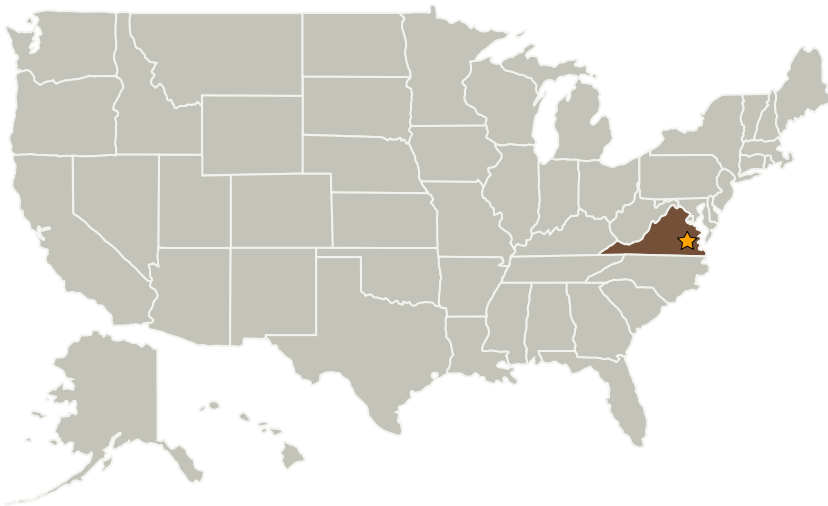
Completed Technology Project (2005 - 2005)



Project Introduction

In this project advanced acoustic blankets for improved low frequency interior noise control in aircraft will be developed and demonstrated. The improved performance is achieved with a novel lightweight composite system that has been previously experimentally demonstrated on laboratory structures. The advanced blanket system will also satisfy new flammability and toxicity requirements with minimal integration issues. Work will be carried out with our partner NEVA Associates and acoustic material manufacturers to design commercial versions of the advanced blankets suitable for aircraft. Integration issues related to application in aircraft fuselages will be considered.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★ Langley Research Center(LaRC)	Lead Organization	NASA Center	Hampton, Virginia
SMD Corporation	Supporting Organization	Industry	Virginia Beach, Virginia



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Langley Research Center (LaRC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Primary U.S. Work Locations

Virginia

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Curtis E Mitchell

Technology Areas

Primary:

- TX14 Thermal Management Systems
 - └ TX14.1 Cryogenic Systems
 - └ TX14.1.3 Thermal Conditioning for Sensors, Instruments, and High Efficiency Electric Motors